

**ERASURE DECODING OPTIMIZATION OF  
ACKNOWLEDGMENT/NEGATIVE ACKNOWLEDGEMENT INFORMATION  
IN A WIRELESS COMMUNICATION SYSTEM**

**ABSTRACT OF THE DISCLOSURE**

In the method of erasure decoding of acknowledgement (ACK)/negative acknowledgement (NACK) feedback information, a state of received ACK/NACK feedback information for associated sent data is detected based on at least one threshold derived using an objective function. The objective function includes at least a first term representing an affect on data throughput for at least one possible type of error in detecting a state of the received ACK/NACK feedback information.